

In the Claims

1. – 29. (Canceled)

30. (Currently amended) A security door construction having opposing side portions and comprising:

a door having a top and a bottom, an inside and an outside, a closing edge and being slidably movable in a slide motion between an open position and a closed position;

a door frame having a top and bottom;

at least one hook located on the inside of said door;

at least one hook slot located on said door frame for receiving said at least one hook located on the inside of said door; and

an offset hinge assembly on one side portion of said security door construction, said offset hinge assembly comprising:

a first top door frame hinge;

a first bottom door frame hinge having a common first axis with said first top door frame hinge;

a first top pin disposed in said first top door frame hinge;

a first bottom pin disposed in said first bottom door frame hinge;

a first rigid member connected to said first top pin and said first bottom pin;

a second top door hinge;

a second bottom door hinge having a common second axis with said second top door hinge;

a second top pin disposed in said second top door hinge;

a second bottom pin disposed in said second bottom hinge;

a second rigid member connected to said second top pin and said second bottom pin;

said first and second axes being parallel, and said first and second rigid members being fixed relative to each other;

a locking structure fixed on said door frame;

a locking assembly mounted on said door, said locking assembly having a movable locking member having a locking condition for releasably engaging said locking structure and an unlocking condition wherein said locking assembly is released from said locking structure, and a locking handle moving said locking member between the locking condition and the unlocking condition;

wherein said door frame comprises a closing style, an upright against which said door closes, said upright being located on the opposite side portion of said security door construction from said offset hinge assembly, and wherein a door slot is located between said closing style and said upright for slidably receiving the closing edge of said door when said door moves into the closed position and for slidably releasing the closing edge of said door when said door moves to the open position, wherein said locking handle is operable upon receiving a ~~rotating~~ and lateral force, to effect a throw of said hinge assembly to cause the sliding movement of said door to selectively move said door from the open position to the closed position and to move said locking member from the unlocking condition to the locking condition, or move said door from the closed position to the open position and move said locking member from the locking condition to the unlocking condition.

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Canceled)

35. (Previously presented) A security door construction as claimed in Claim 30, wherein the first and second rigid members are rods.

36. (Withdrawn) A security door construction as claimed in Claim 30, and further comprising top and bottom leaves disposed at the top and the bottom of said door, said top and bottom leaves respectively connecting said top door hinge to the top of said door and said bottom door hinge to the bottom of said door.

37. (Previously presented) A security door construction as claimed in Claim 30, and further comprising:

    a first upstand fixed to the top of said door frame; and

    a second upstand fixed to the bottom of said door frame,

wherein said top door frame hinge has a top end and said bottom door frame hinge has a bottom end, the top end of said top door frame hinge being fixed to the top of said door frame and to said first upstand, and the bottom end of said bottom door frame hinge being fixed to the bottom of the door frame and said second upstand.

38. (Previously presented) A security door construction as claimed in Claim 30, wherein said upright of said door frame is a box section steel closer.

39. (Canceled)

40. (Canceled)

41. (Previously presented) A security door construction as claimed in Claim 30, wherein the slide motion is 15-25mm.

42. (Canceled)

43. (Previously presented) A security door construction as claimed in Claim 30, wherein the door is substantially planar and the door frame has a closing surface parallel to the plane of the closed door against which the door tilts to close before the door reaches the door slot.

44. (Withdrawn) A security door construction as claimed in Claim 43, further comprising an L-section member fixed to said door frame adjacent and parallel to said closing style and said upright, wherein said closing style and said upright form a channel section style, and said at least one hook slot is defined by said adjacent parallel L-section member and said channel section style.

45. (Canceled)

46. (Withdrawn) A security door construction as claimed in Claim 35, wherein said door has a rotatable handle for opening and closing the door, said handle having a link which reacts against the rod joining said top door frame hinge and said bottom door frame hinge, causing the door to slide left or right when the handle is rotated.

47. (Withdrawn) A security door construction as claimed in Claim 46, further comprising stops located on said door to limit the rotation of the handle, said handle rotating between said stops, and a spring located on said link to assist rotation of said handle by biasing the rotation toward one or the other of said stops.

48. (Canceled)

49. (Withdrawn) A security door construction as claimed in Claim 30, wherein said door is

a screen door made of hollow metal extrusions with pairs of edges, and said top door frame hinge and said bottom door frame hinge are fixed to a face of the frame and said top door hinge and said bottom door hinge are fixed to an edge of the door.

50. (Withdrawn) A security door construction as claimed in Claim 30, wherein said offset hinge assembly is at least partly housed in the door.

51. (Canceled)

52. (Withdrawn) A security door construction as claimed in Claim 43, and further comprising a door closer arranged to bias the door when shut and a biasing assembly associated with the door capable of sliding the door into the door slot when the door closer brings the door into register with the door slot.

53. (Canceled)

54. (Withdrawn) A security door construction as claimed in Claim 52, wherein the biasing assembly comprises a door handle with a crank inside the door, said crank reacting against the rod extending between the frame pivots, biasing means acting between the inside of the door and the crank for urging said door to slide toward the door slot, a link assembly connected to the crank for restraining the biasing means from imparting such slide motion to the door and an arcuate stop extending over at least part of the door's arc of swing which releases the link assembly at the end of the arc when the door registers with the door slot.

55. (Withdrawn) A security door construction as claimed in Claim 54, wherein the arcuate stop is concentric with the hinge axis of said top door frame hinge and said bottom door frame hinge.

56. (Canceled)

57. (Canceled)

58. (Canceled)

59. (Previously presented) A security door construction as claimed in Claim 30, wherein said

first and second rigid members are welded to each other.

60. (Previously presented) A security door construction as claimed in Claim 37, wherein said first upstand is welded to the top of said door frame and said second upstand is welded to the bottom of said door frame.

61. (Previously presented) A security door construction as claimed in Claim 37, wherein said top end of said top door frame hinge is welded to the top of said door frame and to said first upstand, and the bottom end of said bottom door frame hinge is welded to the bottom of said door frame and said second upstand.

62. (Currently amended) A security door construction having opposing side portions and comprising: a door having a top and a bottom, an inside and an outside, a closing edge and being slidably movable in a slide motion between an open position and a closed position;

a door frame having a top and bottom;

at least one hook located on the inside of said door;

at least one hook slot located on said door frame for receiving said at least one hook located on the inside of said door; and

an offset hinge assembly on one side portion of said security door construction, said offset hinge assembly comprising:

a first top door frame hinge;

a first bottom door frame hinge having a common first axis with said first top door frame hinge;

a first top pin disposed in said first top door frame hinge;

a first bottom pin disposed in said first bottom door frame hinge;

at least one first rigid member connected to said first top pin and said first bottom pin;

a second top door hinge;

a second bottom door hinge having a common second axis with said second top door hinge;

a second top pin disposed in said second top door hinge;

a second bottom pin disposed in said second bottom hinge;

said first and second axes being parallel, and said first and second rigid members being fixed relative to each other;

a locking structure fixed on said door frame;

a locking assembly mounted on said door, said locking assembly having a movable locking member having a locking condition for releasably engaging said locking structure and an unlocking condition wherein said locking assembly is released from said locking structure, and a locking handle moving said locking member between the locking condition and the unlocking condition;

wherein said door frame comprises a closing stile, an upright against which said door closes, said upright being located on the opposite side portion of said security door construction from said offset hinge assembly, and wherein a door slot is located between said

closing style and said upright for slidably receiving the closing edge of said door when said door moves into the closed position and for slidably releasing the closing edge of said door when said door moves to the open position, wherein said locking handle is operable upon receiving a ~~rotating~~ and lateral force, to effect a throw of said hinge assembly to cause the sliding movement of said door to selectively move said door from the open position to the closed position and to move said locking member from the unlocking condition to the locking condition, or move said door from the closed position to the open position and move said locking member from the locking condition to the unlocking condition.

63. (Currently amended) A safe comprising:

- a body, wherein said body is made of a single plate panel which is formed into a channel section including styles braced by a top plate and a bottom plate; and

- a security door construction having opposing side portions and comprising:

- a door having a top and a bottom, an inside and an outside, a closing edge and being slidably movable in a slide motion between an open position and a closed position;

- a door frame having a top and bottom;

- at least one hook located on the inside of said door;

- at least one hook slot located on said door frame for receiving said at least one hook located on the inside of said door; and

- an offset hinge assembly on one side portion of said security door construction, said offset hinge assembly comprising:

- a first top door frame hinge;

- a first bottom door frame hinge having a common first axis with said



first top door frame hinge;

a first top pin disposed in said first top door frame hinge;

a first bottom pin disposed in said first bottom door frame hinge;

a first rigid member connected to said first top pin and said first bottom pin;

a second top door hinge;

a second bottom door hinge having a common second axis with said second top door hinge;

a second top pin disposed in said second top door hinge;

a second bottom pin disposed in said second bottom hinge;

a second rigid member connected to said second top pin and said second bottom pin;

said first and second axes being parallel, and said first and second rigid members being fixed relative to each other;

a locking structure fixed on said door frame;

a locking assembly mounted on said door, said locking assembly having a movable locking member having a locking condition for releasably engaging said locking structure and an unlocking condition wherein said locking assembly is released from said locking structure, and a locking handle moving said locking member between the locking condition and the unlocking condition;

wherein said door frame comprises a closing style, an upright against which said door closes, said upright being located on the opposite side portion of said security door

construction from said offset hinge assembly, and wherein a door slot is located between said closing style and said upright for slidably receiving the closing edge of said door when said door moves into the closed position and for slidably releasing the closing edge of said door when said door moves to the open position, wherein said locking handle is operable upon receiving a ~~rotating~~ and lateral force, to effect a throw of said hinge assembly to cause the sliding movement of said door to selectively move said door from the open position to the closed position and to move said locking member from the unlocking condition to the locking condition, or move said door from the closed position to the open position and move said locking member from the locking condition to the unlocking condition.